Date: June 6, 2016

MALABAR



INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

OWNER'S MANUAL FOR MALABAR MODEL

PF54100-AA-2197

2 GALLON FLUID DISPENSER

READ AND SAVE

THIS
INSTRUCTION
MANUAL

- * GENERAL DESCRIPTION
- * OPERATION
- * SERVICE
- * PARTS BREAKDOWN

For Service & Spare

Parts. Please Contact: Malabar International

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OVER 65 YEARS OF SERVICE & EXPERIENCE

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GENERAL DESCRIPTION, OPERATION, SERVICE AND PARTS BREAKDOWN

MALABAR MODEL PF54100-AA-2197 2 GALLON FLUID DISPENSER

CAUTION: AIRCRAFT MANUFACTURER'S SPECIFICATIONS AND

INSTRUCTIONS MUST BE FOLLOWED. IN THE EVENT OF

CONTRADICTION BETWEEN AIRCRAFT

MANUFACTURER'S SPECIFICATIONS AND MALABAR'S,

AIRCRAFT MANUFACTURER'S WILL PREVAIL.

SPECIFICATIONS:

Fluid	BP 2197 TURBO	OIL
Reservoir capacity	2 U.S. gal	7.6 liters
Pump outlet pressure	100 psig	689 kPa
Volume per stroke	2.5 cubic in	41 cc
Relief valve setting		$862 \pm 69 \text{ kPa}$
Hose length	84 in	2134 mm
Net weight (empty)	12 lbs	5.4 kg
Filter rating	1 micron nominal	J
Fluid tank color	blue	

GENERAL DESCRIPTION:

The Malabar Model PF54100-AA-2197 is a 2 gallon fluid dispenser used to service various commercial aircraft. The hand pump dispenser consists of a reservoir, pump assembly, relief valve, water stop filter assembly, fluid meter and a fluid delivery hose with a coupling.

PREPARATION FOR USE:

The unit is shipped fully assembled. Fill reservoir at fillport with approved fluid. Operate hand pump assembly a few strokes to bleed all air out of the system. The unit is now ready for use.

OPERATION:

- 1. Remove dust plug from hose coupling and connect the hose coupling to the aircraft service point.
- 2. Use full steady pumping strokes when operating pump assembly during replenishing.
- 3. Disconnect the hose coupling from the aircraft service point, replace the dust plug and store the unit in a dry, dust free location.

ILLUSTRATED PARTS LIST:

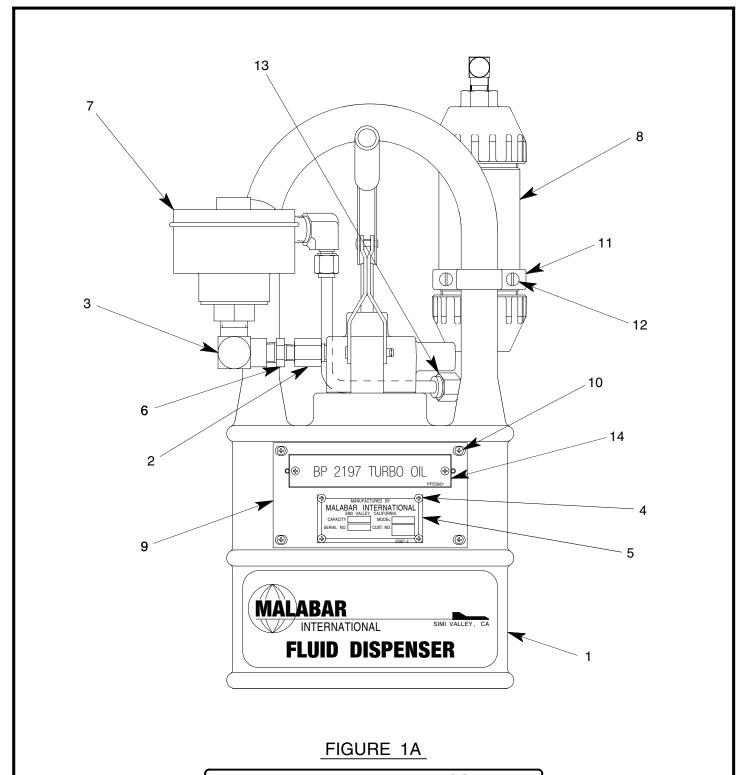
Refer to figure 1A & 1B for unit assembly (see sheets 3 & 4), figure 2 for pump assembly (see sheet 5) or figure 3 for filter assembly (see sheet 6).

SERVICING:

- 1. The frequency of filter change depends on operating conditions. Generally, changes should be made every 3-4 months or sooner if more than normal resistance is felt on the pumping stroke at low pressure. Refer to item 10 in figure 3 (see sheet 6) to change element. Proper element must be installed, otherwise unit will not pump fluid.
- 2. <u>NOTE</u>: The relief valve should not be removed. The relief valve is set to by-pass oil back to the reservoir at 125 ± 10 PSIG.

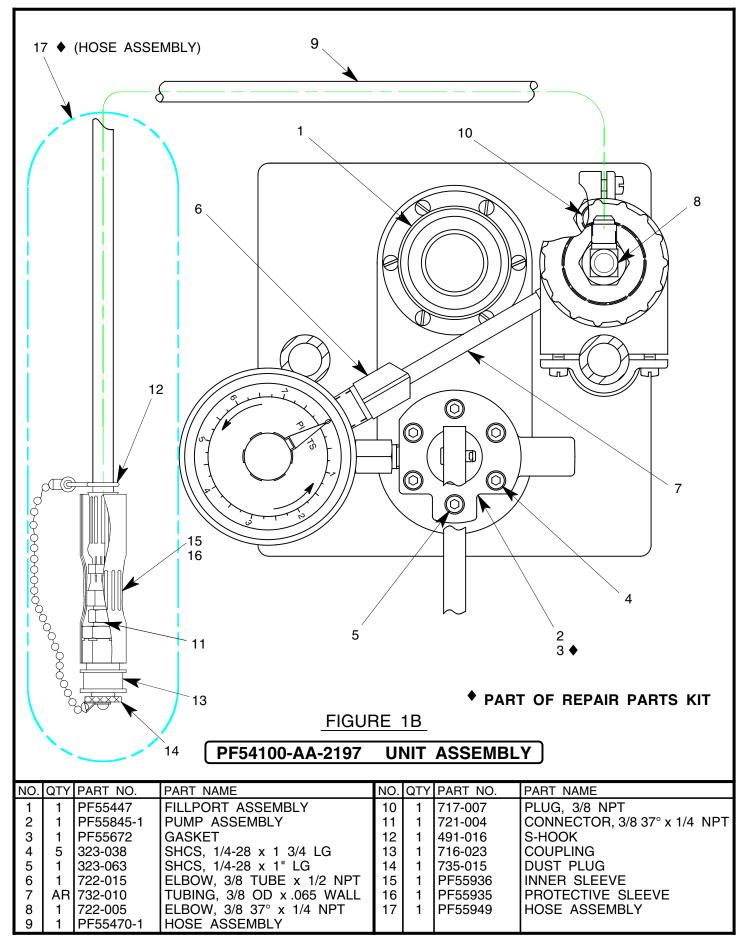
REPAIR AND REPLACEMENT:

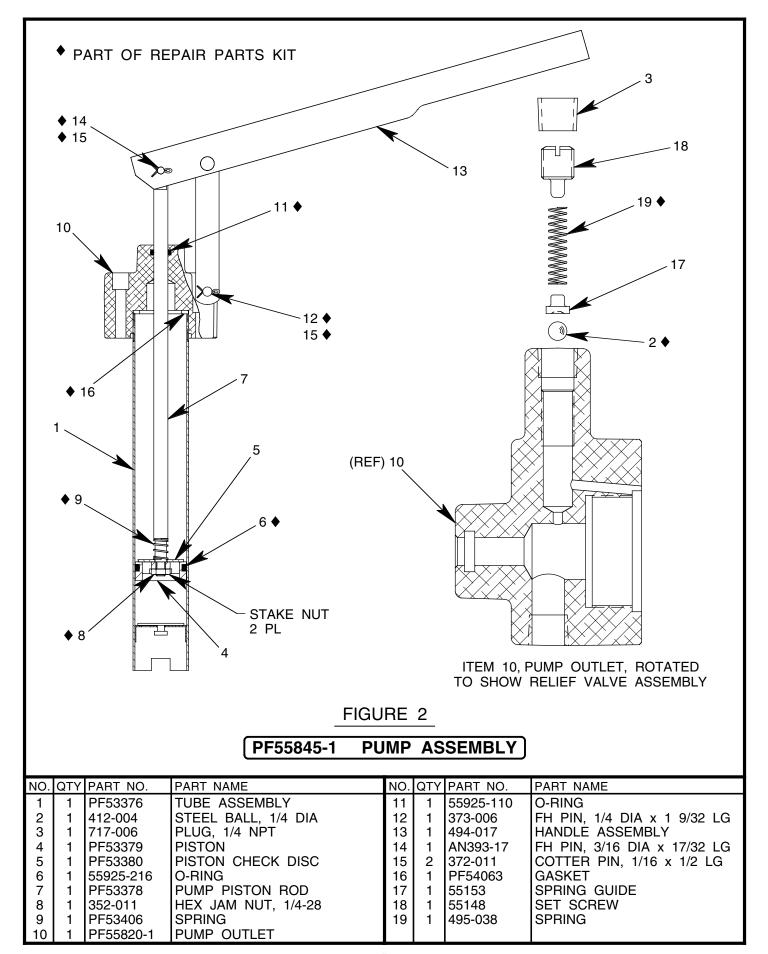
No definite time schedule can be established for the overhaul of the pump assembly for the replacement of the various moving parts. The number of times the pump assembly is operated materially affect the life of the working parts. The moving piston seal (item 6) and rod seal (item 11) are normally the first to wear (see sheet 5). This is usually indicated by leakage of fluid past the piston or rod. It is advisable to change piston seal (item 6), rod seal (item 11) and gasket (item 16) immediately if leakage is discovered. A repair parts kit (P/N PF2-49PK) is available and recommended to keep on hand at your facility. Refer to sheet 7 for the complete list of parts contained in the repair parts kit.

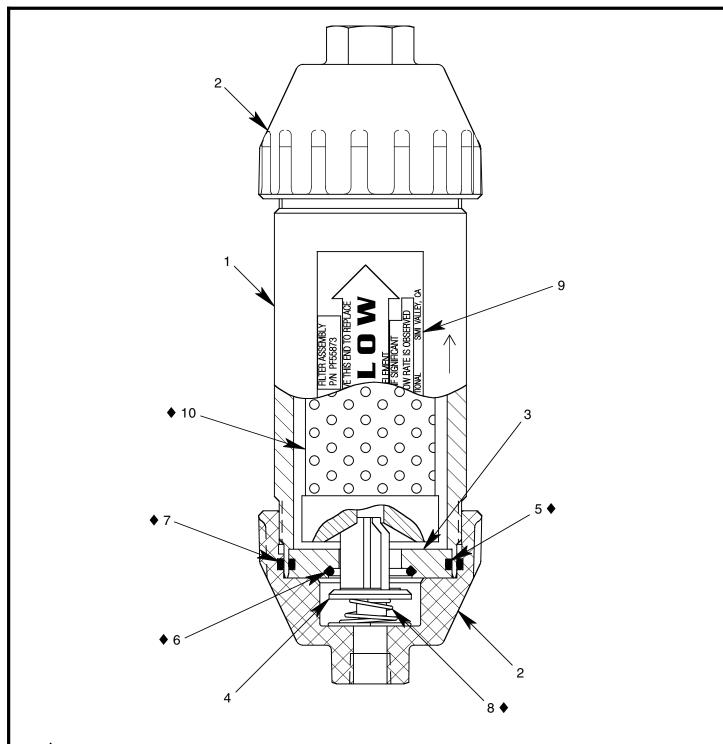


PF54100-AA-2197 UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55838-5	FLUID TANK	8	1	PF55873	FILTER ASSEMBLY
2	1	714-017	BUSHING, 1/4 NPT	9	1	PF55859	PLACARD PLATE
3	1	712-032	ELBOW, 1/2 NPT x 3/8 NPT	10	4	344-011	FHCS, 6-32 x 7/16 LG
4	6	397-010	SELF TAPPING SCREW, 6-32	11	1	PF55871-1	YOKE CLAMP
5	1		NAMEPLATE	12	3	342-010	SCREW, FIL HD, 1/4-20 x 1" LG
6	1	711-018	REDUCER, 3/8 NPT x 1/4 NPT	13	1	722-014	ELBOW, 3/8 TUBE x 1/4 NPT
7	1	486-024	FLUID METER	14	1	PF55981	PLACARD, BP 2197







◆ PART OF REPAIR PARTS KIT

FIGURE 3

PF55873 FILTER ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55849	FILTER HOUSING	6	1	55925-120	O-RING
2	2	PF55852	FILTER HOUSING END CAP	7	2	55925-140	O-RING
3	1	PF55853	RETAINER DISC	8	1	495-039	SPRING
4	1	PF55850	RETAINER VALVE	9	1	PF55872	DECAL, FLOW
5	1	55925-135	O-RING	10	1	481-068	FILTER ELEMENT

PF2-49PK REPAIR PARTS KIT QTY PART NO. PART NAME PF55949 HOSE ASSEMBLY 55925-216 **O-RING** 1 55925-110 **O-RING** 1 PF53406 **SPRING** 1 373-006 FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG 372-011 COTTER PIN, 1/16 x 1/2 LG 1 AN393-17 FLAT HEAD PIN, 3/16 DIA x 17/32 LG PF54063 **GASKET** 1 495-038 **SPRING** 1 412-004 STEEL BALL, 1/4 DIA 1 55925-135 1 O-RING 55925-120 **O-RING** 2 55925-140 **O-RING** 1 495-039 **SPRING** 1 481-068 FILTER ELEMENT 1 352-011 HEX JAM NUT, 1/4-28 PF55672 1 **GASKET** PF2-49PKDOC REPAIR PARTS KIT LIST